

Amendment and Response

Applicant: Jonghee Han et al.

Serial No.: 10/674,177

Filed: September 29, 2003

Docket No.: 2003P52606US/I436.103.101

Title: RANDOM ACCESS MEMORY WITH POST-AMBLE DATA STROBE SIGNAL NOISE REJECTION

REMARKS

The following remarks are made in response to the Office Action mailed August 5, 2005. Claims 1-8, 23-25, 27-30 were rejected. Claims 26 and 31 have been objected to. With this Response, claims 1, 23, and 27 have been amended. Claims 2, 3, 9-22, 26, and 31 have been cancelled. Claims 32-34 have been added. Claims 1, 4-8, 23-25, 27-30, and 32-34 remain pending in the application and are presented for reconsideration and allowance.

Specification

The Abstract of the disclosure is objected to because it is not clear how the second circuit works. The Abstract has been amended to clearly show how the second circuit works. In view of the above, Applicants respectfully submit that the objection of the Abstract of the disclosure should be withdrawn.

Claim Rejections under 35 U.S.C. § 112

Claims 1-8 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Independent claim 1 has been amended to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. In particular, claim 1 has been amended to include “a second circuit configured to receive the strobe signal to latch data into the second circuit in response to the strobe signal, and to receive the pulses to re-latch the latched data into the second circuit after the transitions in the strobe signal.” Dependent claims 2 and 3 have been cancelled. Dependent claims 4-8 further define patentably distinct independent claim 1.

In view of the above, Applicants respectfully submit that the rejection of claims 1 and 4-8 under 35 U.S.C. § 112, second paragraph, should be withdrawn.

Claim Rejections under 35 U.S.C. § 102

Claims 1, 2, 4, 5, 7, 8, 23-25, 27-30 are rejected under 35 U.S.C. § 102(e) as being anticipated by Sawada, U.S. Patent No. 6,894,945 (“Sawada”). Applicants submit that Sawada fails to teach or suggest the invention of amended independent claims 1, 23, and 27. Amended independent claim 1 recites “a second circuit configured to receive the strobe signal to latch data into the second circuit in response to the strobe signal, and to receive the

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pulses to re-latch the latched data into the second circuit after the transitions in the strobe signal, wherein the first circuit comprises: an enable circuit configured to provide an enable signal; and a buffer circuit configured to receive the strobe signal and the enable signal and provide the pulses in response to the enable signal and the strobe signal, and wherein the enable circuit is configured to receive the pulses from the buffer circuit and stop providing the enable signal to the buffer circuit in response to receiving the pulses.” Amended claim 1 includes the allowable subject matter from dependent claim 3.

In view of the above, Sawada fails to teach or suggest the invention of amended independent claim 1. Accordingly, Applicants respectfully submit that the rejection of claim 1 under 35 U.S.C. § 102(e) should be withdrawn.

Dependent claims 4-8 further define patentably distinct independent claim 1. Accordingly, Applicants submit that dependent claims 4-8 are also allowable over the cited reference. Allowance of claims 1 and 4-8 is respectfully requested.

Amended independent claim 23 recites “wherein the means for latching the latched data comprises a third latch stage configured to receive the pulse and latch the latched data into the third latch stage.” Amended independent claim 23 includes the allowable subject matter from dependent claim 26.

In view of the above, Applicants respectfully submit that the rejection of independent claim 23 under 35 U.S.C. § 102(e) should be withdrawn. Dependent claims 24 and 25 further define patentably distinct independent claim 23. Accordingly, Applicants submit that dependent claims 24 and 25 are also allowable over the cited reference. Allowance of claims 23-25 is respectfully requested.

Amended independent claim 27 recites “wherein generating the pulse comprises: receiving a signal at an enable circuit; generating an enable signal from a transition on the received signal; receiving the enable signal and the data strobe signal at a buffer circuit; generating a start of the pulse based on the received enable signal and the received data strobe signal; and receiving the start of the pulse at the enable circuit.” Amended independent claim 27 includes the allowable subject matter from dependent claim 31.

In view of the above, Applicants respectfully submit that the rejection of independent claim 27 under 35 U.S.C. § 103(e) should be withdrawn. Dependent claims 28-30 further define patentably distinct independent claim 27. Accordingly, Applicants submit that

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dependent claims 28-30 are also allowable over the cited reference. Allowance of claims 27-30 is respectfully requested.

Allowable Subject Matter

The Examiner objected to claims 3, 6, 26, and 31 for being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all limitations of the base claim and any intervening claims and if rewritten to overcome the 35 U.S.C. §112 rejections.

The allowable subject matter of claim 3 has been included in amended independent claim 1. The allowable subject matter of claim 6 has been included in new independent claim 32. The allowable subject matter of claim 26 has been included in amended independent claim 23. The allowable subject matter of claim 31 has been included in amended independent claim 27.

Added Claims

Claims 32-34 have been added. New claim 32 includes allowable subject matter from dependent claim 6. Applicants submit that newly added claims 33 and 34 are also allowable over the cited reference. Allowance of claims 32-34 is respectfully requested.

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CONCLUSION

In view of the above, Applicants respectfully submits that pending claims 1, 4-8, 23-25, 27-30, and 32-34 are in form for allowance and are not taught or suggested by the cited references. Therefore, reconsideration and withdrawal of the rejections and allowance of claims 1, 4-8, 23-25, 27-30, and 32-34 is respectfully requested.

No fees are required under 37 C.F.R. 1.16(b)(c). However, if such fees are required, the Patent Office is hereby authorized to charge Deposit Account No. 50-0471.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application.

Respectfully submitted,

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CERTIFICATE UNDER 37 C.F.R. 1.8: The undersigned hereby certifies that this paper or papers, as described herein, are being deposited in the United States Postal Service, as first class mail, in an envelope address to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 7 day of November, 2005.

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